

# Gas/Electric Integration Issues in the PJM Footprint

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### Gas/Electric Coordination Evolution

**Pre Polar Vortex** 

**Polar Vortex** 

Post Polar Votex

2013 FERC Order 787 Gas/Electric

Coordination

2014
PJM formed
Gas/Electric Team

#### 2015

- Capacity Performance approved
- EIPC Study Complete
- Protocol for information sharing with PJM Pipelines
- MOU with PJM Pipelines

FERC Order 809 Modify timing of the Day-Ahead Market

FERC Order Hourly Gen Offers

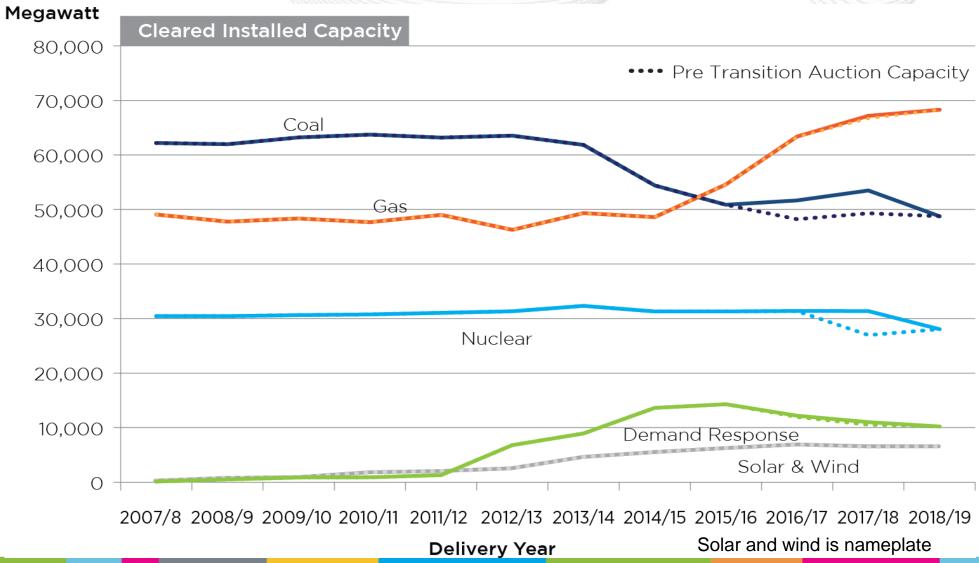
LDC transparency & information sharing

Capacity Performance Phase In

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#### PJM Power Generation Fuel Mix





## Polar Vortex: Key Actions

- Improve transmission system infrastructure
- Incent better fuel availability and/or dual-fuel capability

- Test generators before Winter arrives
- Improve coordination with gas pipeline and neighboring power grids

Capacity Performance Implementation



#### Capacity Performance Implementation

Stricter
performance
requirements in
energy markets
with "no excuses"

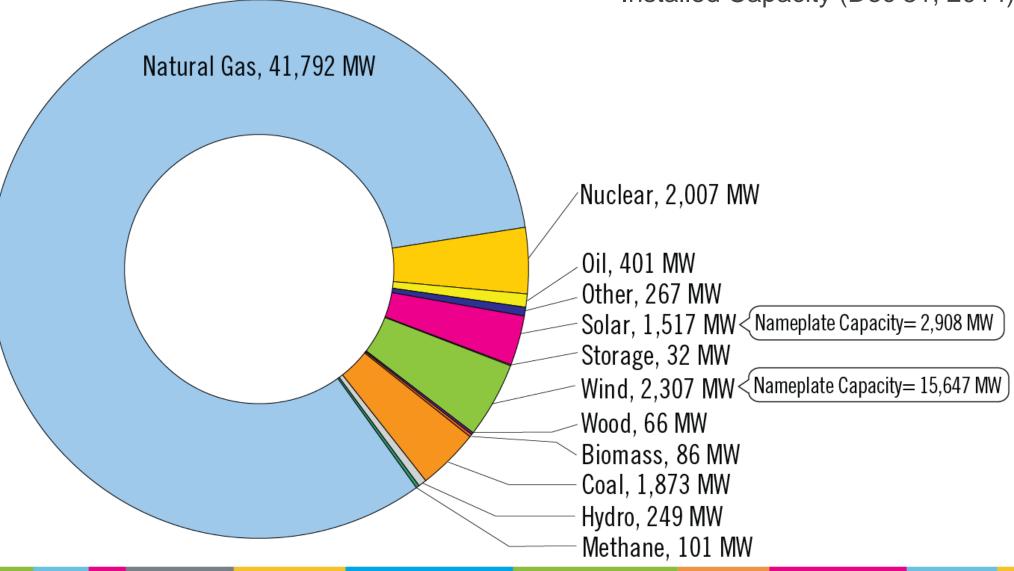
Higher
non-performance
charges during
high demand or
critical hours

Opportunity for increased capacity market revenues to drive investment



#### Fuel Mix of Queue Generation

Installed Capacity (Dec 31, 2014)



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